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1 <u>Solutions to hidden terminal problems in wireless networks</u>   ▥

Chane L. Fullmer, J. J. Garcia-Luna-Aceves

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available: ▤ <u>pdf(1.72 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The floor acquisition multiple access (FAMA) discipline is analyzed in networks with hidden terminals. According to FAMA, control of the channel (the floor) is assigned to at most one ·station in the network at any given time, and this station is guaranteed to be able to transmit one or more data packets to different destinations with no collisions. The FAMA protocols described consist of non-persistent carrier or packet sensing, plus a collision-avoidance dialogue between a source and the intend ...

2 <u>A hybrid collision avoidance scheme for ad hoc networks</u>   ▥

Yu Wang, J. J. Garcia-Luna-Aceves

July 2004 **Wireless Networks**, Volume 10 Issue 4

Full text available: ▤ <u>pdf(140.90 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

A novel hybrid collision avoidance scheme that combines both sender-initiated and receiver-initiated collision-avoidance handshake is proposed for multi-hop ad hoc networks. The new scheme is compatible with the popular IEEE 802.11 MAC protocol and involves only some additional queue management and book-keeping work. Simulations of both UDP- and TCP-based applications are conducted with the IEEE 802.11 MAC protocol, a measurement-based fair scheme and the new scheme. It is shown that the new sch ...

Keywords: ad hoc networks, collision avoidance, fairness, medium access control, receiver-initiated, sender-initiated

3 <u>Transmission range effects on AODV multicast communication</u>   ▥

Elizabeth M. Belding-Royer, Charles E. Perkins

December 2002 **Mobile Networks and Applications**, Volume 7 Issue 6

Full text available: ▤ <u>pdf(367.29 KB)</u>   · Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As laptop computers begin to dominate the marketplace, wireless adapters with varying

bandwidth and range capabilities are being developed by hardware vendors. To provide multihop communication between these computers, ad hoc mobile networking is receiving increasing research interest. While increasing a node's transmission range allows fewer hops between a source and destination and enhances overall network connectivity, it also increases the probability of collisions and reduces the effective ...

Keywords: ad hoc networks, mobile networking, multicast, wireless networks

4 <u>Floor acquisition multiple access (FAMA) in single-channel wireless networks</u>
J. J. Garcia-Luna-Aceves, Chane L. Fullmer
October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Full text available: pdf(333.92 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The FAMA-NCS protocol is introduced for wireless LANs and ad-hoc networks that are based on a single channel and asynchronous transmissions (i.e., no time slotting). FAMA-NCS (for floor acquisition multiple access with non-persistent carrier sensing) guarantees that a single sender is able to send data packets free of collisions to a given receiver at any given time. FAMA-NCS is based on a three-way handshake between sender and receiver in which the sender uses non-persistent carrier sensin ...

5 <u>The detection and elimination of useless misses in multiprocessors</u>
Michel Dubois, Jonas Skeppstedt, Livio Ricciulli, Krishnan Ramamurthy, Per Stenström
May 1993 **ACM SIGARCH Computer Architecture News , Proceedings of the 20th annual international symposium on Computer architecture**, Volume 21 Issue 2

Full text available: pdf(1.03 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper we introduce a new classification of misses in shared-memory multiprocessors based on interprocessor communication. We identify the set of essential misses, i.e., the smallest set of misses necessary for correct execution. Essential misses include cold misses and true sharing misses. All other misses are useless misses and can be ignored without affecting the correctness of program execution. Based on the new classification we compare the effectiveness of five different protoc ...

6 <u>PARO: supporting dynamic power controlled routing in wireless ad hoc networks</u>
Javier Gomez, Andrew T. Campbell, Mahmoud Naghshineh, Chatschik Bisdikian
September 2003 **Wireless Networks**, Volume 9 Issue 5

Full text available: pdf(311.95 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper introduces PARO, a dynamic power controlled routing scheme that helps to minimize the transmission power needed to forward packets between wireless devices in ad hoc networks. Using PARO, one or more intermediate nodes called "redirectors" elects to forward packets on behalf of source-destination pairs thus reducing the aggregate transmission power consumed by wireless devices. PARO is applicable to a number of networking environments including wireless sensor networks, home networks ...

Keywords: ad hoc networks, power control, power optimization, routing protocols

7 <u>A 100% portable inline-debugger</u>
Jurgen Heymann
September 1993 **ACM SIGPLAN Notices**, Volume 28 Issue 9

Full text available: pdf(752.49 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

8 Ad hoc networks: Detection and prevention of MAC layer misbehavior in ad hoc networks

Alvaro A. Cárdenas, Svetlana Radosavac, John S. Baras

October 2004 **Proceedings of the 2nd ACM workshop on Security of ad hoc and sensor networks**

Full text available: 📄 pdf(120.54 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Selfish behavior at the MAC layer can have devastating side effects on the performance of wireless networks, similar to the effects of DoS attacks. In this paper we focus on the prevention and detection of the manipulation of the backoff mechanism by selfish nodes in 802.11. We first propose an algorithm to ensure honest backoffs when at least one, either the receiver or the sender is honest. Then we discuss detection algorithms to deal with the problem of colluding selfish nodes. Although we ...

Keywords: MAC layer, ad hoc networks, intrusion detection

9 A lower bound for randomized algebraic decision trees

Dima Grigoriev, Marek Karpinski, Friedhelm Meyer auf der Heide, Roman Smolensky

July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Full text available: 📄 pdf(726.09 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

10 Use of state diagrams to engineer communications software

Paul Chung, Barry Gaiman

May 1978 **Proceedings of the 3rd international conference on Software engineering**

Full text available: 📄 pdf(517.21 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents our experience with a variation on the use of state diagrams in the development of a communications system. The following techniques are described: - State diagram notation functions as the design language used to describe the functional specification of major program modules. - These modules are coded in a high-level language using the state diagrams as the program structure and specification. - The actual programs are used as input to a ...

11 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: 📄 pdf(1.44 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

12 Wireless data: systems, standards, service
Antonio De Simone, Sanjiv Nanda
March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available: 📄 pdf(1.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

> Wireless data products and services being proposed today include exotic mixes of services and technologies: packet transport over cellular circuits, facsimile service over Cellular Digital Packet Data (CDPD), voice and video over wireless LANs, and everything in between. Data networking terms that seem to have a clear meaning—data-link, network and transport layers; circuit-mode and datagram; connection-less and connection-oriented—in fact have meaning only in context. Thus TCP, ...

13 Best poster papers from MobiHoc 2002: An on-demand minimum energy routing protocol for a wireless ad hoc network
Sheetalkumar Doshi, Shweta Bhandare, Timothy X Brown
June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

Full text available: 📄 pdf(203.93 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> A minimum energy routing protocol reduces the energy consumption of the nodes in a wireless ad hoc network by routing packets on routes that consume the minimum amount of energy to get the packets to their destination. This paper identifies the necessary features of an *on-demand* minimum energy routing protocol and suggests mechanisms for their implementation. We highlight the importance of efficient caching techniques to store the minimum energy route information and propose the use of an ...

14 AIDA: Adaptive application-independent data aggregation in wireless sensor networks
Tian He, Brian M. Blum, John A. Stankovic, Tarek Abdelzaher
May 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 2

Full text available: 📄 pdf(1.02 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> Sensor networks, a novel paradigm in distributed wireless communication technology, have been proposed for various applications including military surveillance and environmental monitoring. These systems deploy heterogeneous collections of sensors capable of observing and reporting on various dynamic properties of their surroundings in a time sensitive manner. Such systems suffer bandwidth, energy, and throughput constraints that limit the quantity of information transferred from end-to-end. The ...

> **Keywords:** Data aggregation, adaptive algorithms, congestion control, energy conservation, feedback control, sensor networks

15 On-demand multicast routing protocol in multihop wireless mobile networks
Sung Ju Lee, William Su, Mario Gerla
December 2002 **Mobile Networks and Applications**, Volume 7 Issue 6

Full text available: 📄 pdf(248.93 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> An ad hoc network is a dynamically reconfigurable wireless network with no fixed infrastructure or central administration. Each host is mobile and must act as a router. Routing and multicasting protocols in ad hoc networks are faced with the challenge of delivering data to destinations through multihop routes in the presence of node movements and topology changes. This paper presents the On-Demand Multicast Routing Protocol (ODMRP) for wireless mobile and hoc networks. ODMRP is a mesh-based, rat ...

Keywords: ad hoc networks, mobile computing, multicast, routing

16 An Object-Oriented Communication Library for Hardware-Software CoDesign

Frank Vahid, Linus Tauro

March 1997 **Proceedings of the 5th International Workshop on Hardware/Software Co-Design**

Full text available: pdf(858.92 KB)   Additional Information: full citation, abstract, citings
Publisher Site

Implementing communication between hardware and software components can be a time-consuming task. Numerous communication protocols are available, differing greatly in their implementation details. Designers must spend much time focusing on those details. Even when libraries are available to encapsulate communication into C or VHDL routines, these routines are not consistent across protocols, making it difficult to switch to other protocols. In this paper, we propose an object-oriented communicat ...

Keywords: Communication, Libraries, Object-Oriented, C, VHDL, Codesign

17 PL360, a Programming Language for the 360 Computers

Niklaus Wirth

January 1968 **Journal of the ACM (JACM)**, Volume 15 Issue 1

Full text available: pdf(2.25 MB)   Additional Information: full citation, abstract, references, citings, index terms

A programming language for the IBM 360 computers and aspects of its implementation are described. The language, called PL360, provides the facilities of a symbolic machine language, but displays a structure defined by a recursive syntax. PL360 was designed to improve the readability of programs which must take into account specific characteristics and limitations of a particular computer. It represents an attempt to further the state of the art of programming by encouraging and even forcing ...

18 Algorithm 835: MultRoot---a Matlab package for computing polynomial roots and multiplicities

Zhonggang Zeng

June 2004 **ACM Transactions on Mathematical Software (TOMS)**, Volume 30 Issue 2

Full text available: pdf(220.88 KB)   Additional Information: full citation, abstract, references, citings, index terms

MultRoot is a collection of Matlab modules for accurate computation of polynomial roots, especially roots with non-trivial multiplicities. As a blackbox-type software, MultRoot requires the polynomial coefficients as the only input, and outputs the computed roots, multiplicities, backward error, estimated forward error, and the structure-preserving condition number. The most significant features of MultRoot are the multiplicity identification capability and high accuracy on multiple roots withou ...

Keywords: multiple root, multiple zero, multiplicity identification, polynomial, root-finding

19 Efficient and practical constructions of LL/SC variables

Prasad Jayanti, Srdjan Petrovic

July 2003 **Proceedings of the twenty-second annual symposium on Principles of distributed computing**

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(1.10 MB)   terms

> Over the past decade, a pair of synchronization instructions known as LL/SC has emerged
> as the most suitable set of instructions to be used in the design of lock-free algorithms.
> However, no existing multiprocessor system supports these instructions in hardware.
> Instead, most modern multiprocessors support instructions such as CAS or RLL/RSC (e.g.
> POWER4, MIPS, SPARC, IA-64). This paper presents two efficient algorithms that implement
> 64-bit LL/SC from 64-bit CAS or RLL/RSC. Our results are summ ...

20 <u>Design and analysis of an algorithm for fair service in error-prone wireless channels</u>   ☐
Songwu Lu, Thyagarajan Nandagopal, Vaduvur Bharghavan
July 2000 **Wireless Networks**, Volume 6 Issue 4

Full text available: pdf(317.34 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>
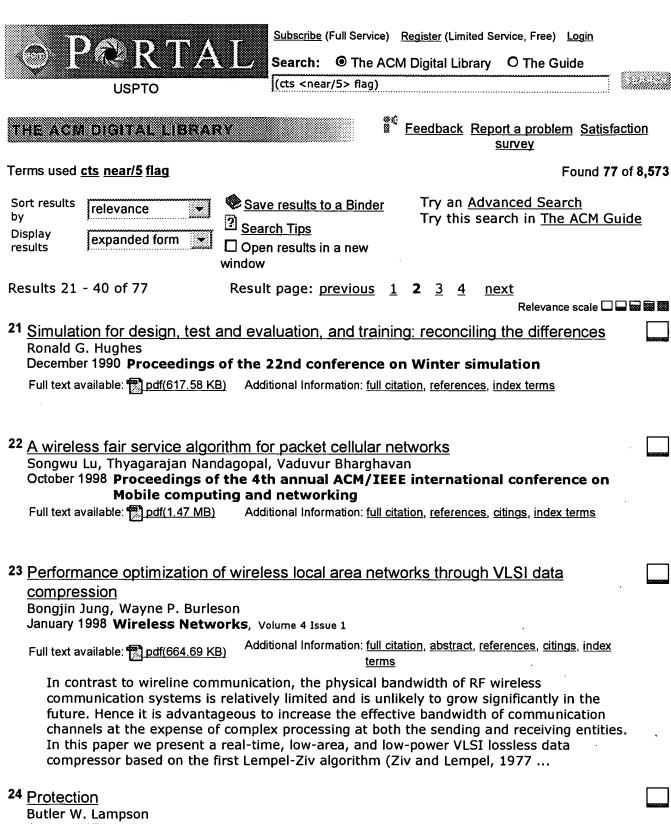

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21 Simulation for design, test and evaluation, and training: reconciling the differences   ☐
Ronald G. Hughes
December 1990 **Proceedings of the 22nd conference on Winter simulation**

Full text available: 📄 pdf(617.58 KB)   Additional Information: full citation, references, index terms

22 A wireless fair service algorithm for packet cellular networks   ☐
Songwu Lu, Thyagarajan Nandagopal, Vaduvur Bharghavan
October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: 📄 pdf(1.47 MB)   Additional Information: full citation, references, citings, index terms

23 Performance optimization of wireless local area networks through VLSI data compression   ☐
Bongjin Jung, Wayne P. Burleson
January 1998 **Wireless Networks**, Volume 4 Issue 1

Full text available: 📄 pdf(664.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

> In contrast to wireline communication, the physical bandwidth of RF wireless communication systems is relatively limited and is unlikely to grow significantly in the future. Hence it is advantageous to increase the effective bandwidth of communication channels at the expense of complex processing at both the sending and receiving entities. In this paper we present a real-time, low-area, and low-power VLSI lossless data compressor based on the first Lempel-Ziv algorithm (Ziv and Lempel, 1977 ...

24 Protection   ☐
Butler W. Lampson
January 1974 **ACM SIGOPS Operating Systems Review**, Volume 8 Issue 1

Full text available: 📄 pdf(618.75 KB)   Additional Information: full citation, abstract, references, citings

> Abstract models are given which reflect the properties of most existing mechanisms for enforcing protection or access control, together with some possible implementations. The properties of existing systems are explicated in terms of the model and implementations.

25 Functional reactive programming, continued
Henrik Nilsson, Antony Courtney, John Peterson
October 2002 **Proceedings of the ACM SIGPLAN workshop on Haskell**

Full text available: pdf(201.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

Functional Reactive Programming (FRP) extends a host programming language with a notion of time flow. Arrowized FRP (AFRP) is a version of FRP embedded in Haskell based on the arrow combinators. AFRP is a powerful synchronous dataflow programming language with hybrid modeling capabilities, combining advanced synchronous dataflow features with the higher-order lazy functional abstractions of Haskell. In this paper, we describe the AFRP programming style and our Haskell-based implementation. Of pa ...

Keywords: FRP, Haskell, domain-specific languages, functional programming, hybrid modeling, synchronous dataflow languages

26 Host migration transparency in IP networks: the VIP approach
Fumio Teraoka, Mario Tokoro
January 1993 **ACM SIGCOMM Computer Communication Review**, Volume 23 Issue 1

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, citings, index terms

Increasing portability of computers will require users in the future to access the network regardless of location. Host migration transparency will be an essential feature of wide area network environments. We proposed the concept of *virtual network* and the *propagating cache method* to achieve host migration transparency [12]. We also established the feasibility of Virtual Internet Protocol (VIP), derived from Internet Protocol (IP), as an example of a virtual network protocol. In t ...

27 Mobile wireless networks: Adaptive range control using directional antennas in mobile ad hoc networks
Mineo Takai, Junlan Zhou, Rajive Bagrodia
September 2003 **Proceedings of the 6th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems**

Full text available: pdf(279.04 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents ARC (Adaptive Range Control), a communication range control mechanism using directional antennas to be implemented across multiple layers. ARC uses directional reception for range control rather than directional transmission such that extended communication links do not increase interference to other ongoing communications. It adaptively controls the communication range by estimating dynamically changing local network density based on the transmission activities around each n ...

Keywords: cross-layer interactions, directional antenna systems, mobile ad hoc networks

28 Wireless amd Mobile Networks Performance: EMWIN:: emulating a mobile wireless network using a wired network
Pei Zheng, Lionel M. Ni
September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia**

Full text available: pdf(620.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

Test and performance evaluation of protocols and algorithms in mobile wireless networks is known to be challenging. Due to the highly varying characteristics of mobile wireless networks, one cannot merely rely on either network simulation or a testbed. Network

emulation provides a controllable and reproducible environment, yet it generally lacks the support for the emulation of network topology and mobility, which are extremely critical in mobile wireless network research. We introduce EMWIN, a ...

Keywords: mobile wireless network, mobility, network emulation, performance evaluation

29 Statistical multiplexing of data and encoded voice in a transparent intelligent network
M. E. Ulug, J. G. Gruber
September 1977 **Proceedings of the fifth symposium on Data communications**

Full text available: pdf(785.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

The paper describes the work done thus far in the development of a means of statistically multiplexing data and encoded voice in a transparent and intelligent network called TI-NET. A review of previous work in packetized voice transmission in a conventional packet switched network (ARPANET) has revealed problems related to large fixed and variable transmission delays. These problems result in degradations in speech quality in the form of time scale distortion and gaps due to very late or l ...

30 Formal verification of a real-time hardware design
Zerksis D. Umrigar, Vijay Pitchumani
June 1983 **Proceedings of the 20th conference on Design automation**

Full text available: pdf(604.28 KB)   Additional Information: full citation, abstract, references, citings, index terms

As hardware systems continue to grow more complex, formal methods for their design and verification become increasingly important. In this paper, we develop the design and formal specifications for the receiver section of an Universal Asynchronous Receiver/Transmitter. Though no mechanical verification has been done, such a development methodology is essential for formal verification. The emphasis here is on transforming informal specifications into formal ones, and showing how these formal ...

31 Soar/PSM-E: investigating match parallelism in a learning production sytsem
Milind Tambe, Dirk Kalp, Anoop Gupta, Charles Forgy, Brian Milnes, Allen Newell
January 1988 **ACM SIGPLAN Notices , Proceedings of the ACM/SIGPLAN conference on Parallel programming: experience with applications, languages and systems**, Volume 23 Issue 9

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

Soar is an attempt to realize a set of hypotheses on the nature of general intelligence within a single system. Soar uses a production system (rule based system) to encode its knowledge base. Its learning mechanism, chunking, adds productions continuously to the production system. The process of searching for relevant knowledge, matching, is known to be a performance bottleneck in production systems. PSM-E is a C-based implementation of the OPS5 production system on the Enc ...

32 Unified geometric modeling by non-manifold shell operation
Masatake Higashi, Hideki Yatomi, Yoshihiro Mizutani, Shin-ichi Murabata
June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications**

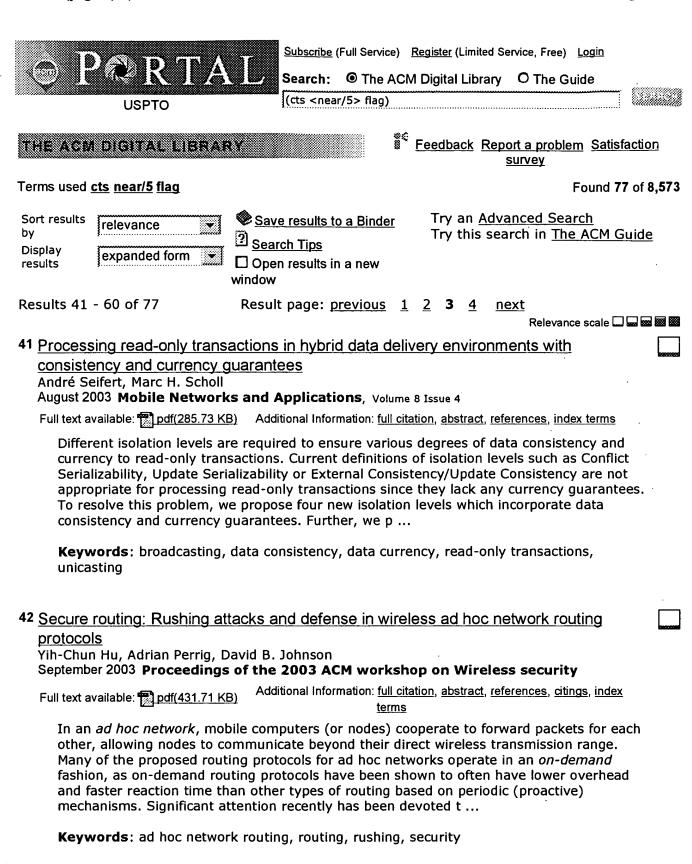Full text available: pdf(1.12 MB)   Additional Information: full citation, references, citings, index terms

33

A framework for designing and implementing the Ada standard container library
Jordi Marco, Xavier Franch
December 2003 **ACM SIGAda Ada Letters , Proceedings of the 2003 annual ACM SIGAda international conference on Ada: the engineering of correct and reliable software for real-time & distributed systems using ada and related technologies**, Volume XXIV Issue 1

Full text available: pdf(249.09 KB)   Additional Information: full citation, abstract, references, index terms, review

An open issue of the Ada language is the definition of a standard container library. Containers in this library (e.g., sets, maps and lists) shall offer some core functionalities that characterise their behaviour (i.e., different strategies for managing the elements stored therein) as well as other general functionalities. Among these general functionalities, we are interested in alternative ways for accessing the containers, namely direct access by position and traversals using iterators. In th ...

Keywords: access by position, container libraries, iterators, quality models

34 Driving me nuts: revisiting old APIs
Greg Kroah-Hartman
October 2003 **Linux Journal**, Volume 2003 Issue 114

Full text available: html(11.43 KB)   Additional Information: full citation

35 GAMS: a framework for the management of scientific software
Ronald F. Boisvert, Sally E. Howe, David K. Kahaner
December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Full text available: pdf(2.83 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

36 Automatic generation of machine specific code optimizers
Robert Giegerich
January 1982 **Proceedings of the 9th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(459.81 KB)   Additional Information: full citation, references, citings

37 Fair scheduling in wireless packet networks
Songwu Lu, Vaduvur Bharghavan, Rayadurgam Srikant
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available: pdf(2.17 MB)   Additional Information: full citation, abstract, references, citings, index terms

Fair scheduling of delay and rate-sensitive packet flows over a wireless channel is not addressed effectively by most contemporary wireline fair scheduling algorithms because of

two unique characteristics of wireless media: (a) bursty channel errors, and (b) location-dependent channel capacity and errors. Besides, in packet cellular networks, the base station typically performs the task of packet scheduling for both downlink and uplink flows in a cell; however a base station has only a limited k ...

38 Rednet: a wireless ATM local area network using infrared links

J. H. Condon, T. S. Duff, M. F. Jukl, C. R. Kalmanek, B. N. Locanthi, J. P. Savicki, J. H. Venutolo

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

Full text available: pdf(1.27 MB)   Additional Information: full citation, references, citings, index terms

39 Dynamic path-based software watermarking

C. Collberg, E. Carter, S. Debray, A. Huntwork, J. Kececioglu, C. Linn, M. Stepp

June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation,** Volume 39 Issue 6

Full text available: pdf(282.11 KB)   Additional Information: full citation, abstract, references, index terms

Software watermarking is a tool used to combat software piracy by embedding identifying information into a program. Most existing proposals for software watermarking have the shortcoming that the mark can be destroyed via fairly straightforward semantics-preserving code transformations. This paper introduces path-based watermarking, a new approach to software watermarking based on the dynamic branching behavior of programs. The advantage of this technique is that error-correcting and tamper-proo ...

Keywords: software piracy, software protection, watermarking

40 K-d trees for semidynamic point sets

Jon Louis Bentley

May 1990 **Proceedings of the sixth annual symposium on Computational geometry**

Full text available: pdf(928.78 KB)   Additional Information: full citation, abstract, references, citings, index terms

A K-d tree represents a set of N points in K-dimensional space. Operations on a semidynamic tree may delete and undelete points, but may not insert new points. This paper shows that several operations that require &Ogr;(log N) expected time in general K-d trees may be performed in constant expected time in semidynamic trees. These operations include deletion, undeletion, ne ...

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41 Processing read-only transactions in hybrid data delivery environments with consistency and currency guarantees   ☐
André Seifert, Marc H. Scholl
August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4

Full text available: ▦ pdf(285.73 KB)   Additional Information: full citation, abstract, references, index terms

Different isolation levels are required to ensure various degrees of data consistency and currency to read-only transactions. Current definitions of isolation levels such as Conflict Serializability, Update Serializability or External Consistency/Update Consistency are not appropriate for processing read-only transactions since they lack any currency guarantees. To resolve this problem, we propose four new isolation levels which incorporate data consistency and currency guarantees. Further, we p ...

Keywords: broadcasting, data consistency, data currency, read-only transactions, unicasting

42 Secure routing: Rushing attacks and defense in wireless ad hoc network routing protocols   ☐
Yih-Chun Hu, Adrian Perrig, David B. Johnson
September 2003 **Proceedings of the 2003 ACM workshop on Wireless security**

Full text available: ▦ pdf(431.71 KB)   Additional Information: full citation, abstract, references, citings, index terms

In an *ad hoc network*, mobile computers (or nodes) cooperate to forward packets for each other, allowing nodes to communicate beyond their direct wireless transmission range. Many of the proposed routing protocols for ad hoc networks operate in an *on-demand* fashion, as on-demand routing protocols have been shown to often have lower overhead and faster reaction time than other types of routing based on periodic (proactive) mechanisms. Significant attention recently has been devoted t ...

Keywords: ad hoc network routing, routing, rushing, security

43 Session I: QoS in ad hoc and infra-structure based wireless networks: Voice transmission in an IEEE 802.11 WLAN based access network   ☐
Andreas Köpsel, Adam Wolisz
July 2001 **Proceedings of the 4th ACM international workshop on Wireless mobile**

multimedia

Full text available: 📄 pdf(246.56 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

IEEE 802.11 contains a mechanism for transmission of data with realtime constraints known as *Point Coordination Function.* This supplementary medium access protocol resides on top of the basic medium access mechanism *Distributed Coordination Function* and uses a centralized polling approach. Due to the complexity of a PCF implementation and the predicted inefficiency of the PCF several proposals have been presented for providing QoS support without the need of a centralized sc ...

Keywords: DCF, IEEE 802.11, PCF, WLAN, best-effort, real-time, scheduling, voice transmission

44 <u>System architecture of parallel processing system -Harry-</u>
H. Yamana, T. Marushima, T. Hagiwara, Y. Muraoka
June 1988 **Proceedings of the 2nd international conference on Supercomputing**

Full text available: 📄 pdf(1.54 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper proposes a parallel processing system -Harray- for scientific computations. Data flow computers are expected to obtain the high performance because they can extract parallelism fully from a program. However, they have many problems, such as the difficulty of controlling the sequence of execution. The -Harray- system is an array processor which adapts two levels of control mechanism; data flow execution in each processor and control flow between processors, in order to take full a ...

45 <u>Session A: Routing: LANMAR: landmark routing for large scale wireless ad hoc networks with group mobility</u>
Guangyu Pei, Mario Gerla, Xiaoyan Hong
November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**
Full text available: 📄 pdf(670.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

In this paper, we present a novel routing protocol for wireless ad hoc networks - Landmark Ad Hoc Routing (LANMAR). LANMAR combines the features of Fisheye State Routing (FSR) and Landmark routing. The key novelty is the use of landmarks for each set of nodes which move as a group (e.g., a team of co-workers at a convention or a tank battalion in the battlefield) in order to reduce routing update overhead. Like in FSR, nodes exchange link state only with their neighbors. Routes within Fisheye sc ...

46 <u>Verification of Erlang programs using abstract interpretation and model checking</u>
Frank Huch
September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 9
Full text available: 📄 pdf(1.40 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We present an approach for the verification of Erlang programs using abstract interpretation and model checking. In general model checking for temporal logics like LTL and Erlang · programs is undecidable. Therefore we define a frame-work for abstract interpretations for a core fragment of Erlang. In this framework it is guaranteed, that the abstract operational semantics preserves all paths of the standard operational semantics. We consider properties that have to hold on all paths of a system, I ...

Keywords: Erlang, abstract interpretation, distributed system, model checking, verification

47 <u>Volume thinning for automatic isosurface propagation</u>

Takayuki Itoh, Yasushi Yamaguchi, Koji Koyamada

October 1996 **Proceedings of the 7th conference on Visualization '96**

Full text available: <u>pdf(1.06 MB)</u> <u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

48 <u>Precision-sensitive Euclidean shortest path in 3-space (extended abstract)</u>

Joonsoo Choi, Jürgen Sellen, Chee-Keng Yap

September 1995 **Proceedings of the eleventh annual symposium on Computational geometry**

Full text available: <u>pdf(901.09 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

49 <u>A customizable substrate for concurrent languages</u>

Suresh Jagannathan, Jim Philbin

July 1992 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1992 conference on Programming language design and implementation**, Volume 27 Issue 7

Full text available: <u>pdf(1.45 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We describe an approach to implementing a wide-range of concurrency paradigms in high-level (symbolic) programming languages. The focus of our discussion is STING, a dialect of Scheme, that supports lightweight threads of control and virtual processors as first-class objects. Given the significant degree to which the behavior of these objects may be customized, we can easily express a variety of concurrency paradigms and linguistic structures within a common framework without loss of effici ...

50 <u>Energy consumption of TCP in ad hoc networks</u>

H. Singh, S. Saxena, S. Singh

September 2004 **Wireless Networks**, Volume 10 Issue 5

Full text available: <u>pdf(424.77 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper we study the energy cost (protocol processing and communication cost) and goodput of different flavors of TCP (Transmission Control Protocol) in ad hoc networks. We implemented a testbed and measured the actual energy cost as well as goodput of running TCP Reno, Newreno, SACK (Selective ACKnowledgement) and a version that combines Explicit Link Failure Notification (ELFN) [7] and Explicit Congestion Notification (ECN) [5] in Newreno. We see that the use of ECN & ELFN does yield ...

Keywords: TCP, ad hoc, energy consumption, wireless

51 <u>Modelling knowledge for a natural language: understanding system</u>

Gudrun Klose, Thomas Pirlein

April 1991 **Proceedings of the fifth conference on European chapter of the Association for Computational Linguistics**

Full text available: <u>pdf(540.38 KB)</u> <u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

In the field of knowledge based systems for natural language processing, one of the most challenging aims is to use parts of an existing knowledge base for different domains and/or

different tasks. We support the point that this problem can only be solved by using adequate metainformation about the content and structuring principles of the representational systems concerned. One of the prerequisites in this respect is the transparency of modelling decisions.After a short introduction to our scen ...

52 Language-independent aspect-oriented programming

Donal Lafferty, Vinny Cahill

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications**, Volume 38 Issue 11

Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, citings, index terms

The term aspect-oriented programming (AOP) has come to describe the set of programming mechanisms developed specifically to express crosscutting concerns. Since crosscutting concerns cannot be properly modularized within object-oriented programming, they are expressed as aspects and are composed, or woven, with traditionally encapsulated functionality referred to as components.Many AOP models exist, but their implementations are typically coupled with a single language. To allow weaving of exist ...

Keywords: Weave.NET, aspect-oriented programming, common language infrastructure, language-independence

53 Design of an Oncology Clinical Information System

Bruce I. Blum, Raymond E. Lenhard

January 1977 **Proceedings of the 1977 annual conference**

Full text available: pdf(547.78 KB)   Additional Information: full citation, abstract, references, index terms

The use of complex multimodality treatment plans and the necessity for detailed, precisely timed collection of measurements of tumor response, drug toxicity, biochemical markers, and other specific parameters of therapeutic evaluation has created the need for a clinically oriented data system which can assist the oncologist in the organization, collection, and analysis of multiple pieces of research and treatment related data. To serve this need, a prototype computer - based system is in ro ...

54 A digital video display system implemented on a KIM-1 microcomputer

N. Solntseff, M. D. Drummond

September 1980 **Proceedings of the 3rd ACM SIGSMALL symposium and the first SIGPC symposium on Small systems**

Full text available: pdf(623.80 KB)   Additional Information: full citation, abstract, references, index terms

The "microelectronic revolution" and the accompanying decrease in the cost of semiconductor memory has increased the availability of raster-scan graphical displays, yet, as pointed out in a recent survey [BAE79], the implementation of graphics software for raster-scan systems has lagged behind that for random-scan ones. The aim of the work described in the present paper has been to apply random-scan techniques to a system employing a relatively inexpensive raster-scan device. Th ...

Keywords: Computer animation, Digital video-graphics, Display file, Display file processor, Low-cost graphics, Random-scan graphics

55 MCTS customer task environment

R. R. Brown

October 1975 **ACM SIGOPS Operating Systems Review**, Volume 9 Issue 4

Full text available: pdf(2.04 MB)   Additional Information: full citation, references

56 gIBIS: a hypertext tool for exploratory policy discussion
Jeff Conklin, Michael L. Begeman
January 1988 **Proceedings of the 1988 ACM conference on Computer-supported cooperative work**

Full text available: pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application specific hypertext system designed to facilitate the capture of early design deliberations. It implements a specific method, called Issue Based Information Systems (IBIS), which has been developed for use on large, complex design problems. The hypertext system described here, gIBIS (for graphical IBIS), makes use of color and a high speed relational database server to facilitate building and browsing typed IBIS networks. Further. gIBIS is designed to supp ...

57 Special issue on spatial database systems: Management of multidimensional discrete data
Peter Baumann
October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4
Full text available: pdf(2.30 MB)   Additional Information: full citation, abstract, references, citings

Spatial database management involves two main categories of data: vector and raster data. The former has received a lot of in-depth investigation; the latter still lacks a sound framework. Current DBMSs either regard raster data as pure byte sequences where the DBMS has no knowledge about the underlying semantics, or they do not complement array structures with storage mechanisms suitable for huge arrays, or they are designed as specialized systems with sophisticated imaging functionality, but n ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

58 Network Games: Coordinated CPU and event scheduling for distributed multimedia applications
Christian Poellabauer, Karsten Schwan, Richard West
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(959.14 KB)   Additional Information: full citation, abstract, references, citings, index terms

Distributed multimedia applications require support from the underlying operating system to achieve and maintain their desired Quality of Service (QoS). This has led to the creation of novel task and message schedulers and to the development of QoS mechanisms that allow applications to explicitly interact with relevant operating system services. However, the task scheduling techniques developed to date are not well equipped to take advantage of such interactions. As a result, important events su ...

Keywords: multimedia, quality of Service, scheduling

59 Multiprogram scheduling: parts 3 and 4. scheduling algorithm and external constraints
E. F. Codd
July 1960 **Communications of the ACM**, Volume 3 Issue 7
Full text available: pdf(783.19 KB)   Additional Information: full citation, abstract, references, citings

The scheduling algorithm examines the programs to be scheduled one by one and places their component rectangles in the corresponding load diagrams according to a set of placement rules.

60 Almost Internet with SLiRP and PPP

Jim Knoble

April 1996 **Linux Journal**

Full text available: html(32.64 KB)   Additional Information: full citation, abstract, index terms

Jim guides the neophyte through installing and using SLiRP, a freely available software package which makes an ordinary shell account act like a SLIP or PPP account.

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61 ACM forum   ☐
Robert L. Ashenhurst
June 1988 **Communications of the ACM**, Volume 31 Issue 6
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62 Integration and synchronization of input modes during multimodal human-computer   ☐
interaction
Sharon Oviatt, Antonella DeAngeli, Karen Kuhn
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: 🗎 pdf(1.18 MB)   Additional Information: full citation, references, citings, index terms

Keywords: dynamic interactive maps, integration and synchronization, multimodal interaction, predictive modeling, spatial location information, speech and pen input

63 Innovative verification strategy reduces design cycle time for high-end SPARC   ☐
processor
Val Popescu, Bill McNamara
June 1996 **Proceedings of the 33rd annual conference on Design automation**
Full text available: 🗎 pdf(50.97 KB)   Additional Information: full citation, citings, index terms

64 Improving single-process performance with multithreaded processors   ☐
Alexandre Farcy, Olivier Temam
January 1996 **Proceedings of the 10th international conference on Supercomputing**
Full text available: 🗎 pdf(1.07 MB)   Additional Information: full citation, references, index terms

65 i3D: a high-speed 3D Web browser   ☐
Jean-Francis Balaguer, Enrico Gobbetti

January 1995 **Proceedings of the first symposium on Virtual reality modeling language**

Full text available: pdf(640.83 KB)   Additional Information: full citation, references, citings, index terms

66 The butterfly satellite IMP for the wideband packet satellite network

W Edmond, S Bumenthal, A Echenique, S Storch, T Calderwood

August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols,** Volume 16 Issue 3

Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, references, citings, index terms

Multiprocessor computer systems have proven effective as high performance switching nodes in packet switched data communications networks. They are well suited to performing the required queuing, routing, and scheduling tasks, and can scale upward to provide higher system throughput when combined with software that exploits the parallelism provided by the hardware. This paper describes the packet switch used in the DARPA Wideband Packet Satellite Network and the Butterfly™ Multiproces ...

67 Organized C: A unified method of handling data in CAD algorithms and databases

Jiri Soukup

January 1991 **Proceedings of the 27th ACM/IEEE conference on Design automation**

Full text available: pdf(760.50 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a data management package called Organized C. The main feature of this package are simple and compact declarations which translates organizations into the definition of classes, pointers, and access functions. This method adds a new dimension to the inheritance mechanism, works with both C and C++, and is specifically useful for CAD software which often deals with large and complex data. It also leads to a unified coding style for algorithms and memory resident database ...

68 Design methodology management—a CAD framework initiative perspective

Kenneth W. Fiduk, Sally Kleinfeldt, Marta Kosarchyn, Eileen B. Perez

January 1991 **Proceedings of the 27th ACM/IEEE conference on Design automation**

Full text available: pdf(739.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

The design of today's electronic systems involves the use of a growing number of complex CAD tools. Invoking and controlling these tools, independently or as part of a captured, multi-operation flow, remains an error-prone and largely unsolved problem. This problem is the focus of the Design Methodology Management Technical Subcommittee (DMMTSC) of the CAD Framework Initiative. This paper describes the DMM problem, establishes DMM requirements, and presents the state of the DMMTSC effort to ...

69 Radio resource management: A wireless traffic probe for radio resource management and QoS provisioning in IEEE 802.11 WLANs

Mark Davis

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(451.50 KB)   Additional Information: full citation, abstract, references, index terms

The emergence of real-time services such as voice over IP (VoIP) and video streaming, imposes stringent requirements on the performance of a network if quality of service (QoS) targets are to be achieved. In the case of wireless networks, some form of radio resource management (RRM) is typically required to allocate the available resources among the

contending stations in accordance with their needs and respective priorities. A critical aspect of any RRM scheme is the ability to monitor resource ...
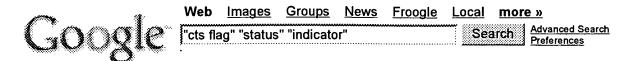
Keywords: Wi-Fi, radio resource management, traffic probe

70 No. 1A ESS Laboratory Support System - erasable flag facility
Buyansky, Donald V., Schatz, James W.
September 1982 **Proceedings of the 6th international conference on Software engineering**
Full text available: pdf(623.35 KB)   Additional Information: full citation, abstract, references, index terms

A Laboratory Support System (LSS) is provided in all No. 1A Electronic Switching System (ESS) test laboratories to support the ESS software development process. The LSS tools are utilized by the developers to accomplish ESS program database management, lab load administration, lab load generation, and program testing and debugging in the laboratory environment. This document describes one of the LSS testing and debugging tools: the No. 1A ESS Laboratory Erasable Flag System. This facility i ...

71 Evolutionary testing in the presence of loop-assigned flags: a testability transformation approach
André Baresel, David Binkley, Mark Harman, Bogdan Korel
July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 29 Issue 4
Full text available: pdf(241.32 KB)   Additional Information: full citation, abstract, references, index terms

Evolutionary testing is an effective technique for automatically generating good quality test data. However, for structural testing, the technique degenerates to random testing in the presence of flag variables, which also present problems for other automated test data generation techniques. Previous work on the flag problem does not address flags assigned in loops.This paper introduces a testability transformation that transforms programs with loop--assigned flags so that existing genetic appro ...

Keywords: empirical evaluation, evolutionary testing, flags, testability transformation

72 The effect of compiler-flag tuning on SPEC benchmark performance
Yin Chan, Ashok Sudarsanam, Andrew Wolfe
September 1994 **ACM SIGARCH Computer Architecture News**, Volume 22 Issue 4
Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, index terms

The SPEC CINT92 and CFP92 benchmark suites are application-based system benchmarks primarily intended for workstation-class system performance measurements. The SPEC CPU benchmark results are widely disseminated by system vendors and as such have become the de-facto standard for comparing system performance. Recently, many observers have expressed concerns about the suitability of published SPEC benchmark results in representing application performance on typical systems. The most outspoken conc ...

73 Using the flag taxonomy to study hypermedia system interoperabilty
Uffe Kock Wiil, Kasper Østerbye
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Full text available: pdf(1.30 MB)   Additional Information: full citation, references, citings, index terms

74 <u>A web-based multimedia database for national flag application</u>

Longzhuang Li, Dehu Qi, Xinqi Zhang

October 2004 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 1

Full text available: <u>pdf(577.56 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

> Frequently in the database management systems (DBMS) class, we teach students the theory and practical skills required to create efficient Web-based database systems. Generally, at Texas A&M University-Corpus Christi and Lamar University, the projects done in the DBMS class are text-based database systems. However, in this paper we describe a project in which students implement a Web-based multimedia database for the national flag application. The development and implementation of the multimedia ...

75 <u>The flag taxonomy of open hypermedia systems</u>

Kasper Østerbye, Uffe Kock Wiil

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available: <u>pdf(1.20 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> **Keywords**: Dexter model, integration, link protocol, open hypermedia systems, taxonomy, third-party viewers

76 <u>An analysis of algorithms for the Dutch National Flag Problem</u>

Colin L. McMaster

October 1978 **Communications of the ACM**, Volume 21 Issue 10

Full text available: <u>pdf(435.54 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> Solutions to the Dutch National Flag Problem have been given by Dijkstra [1] and Meyer [3]. Dijkstra starts with a simple program and arrives at an improved program by refinement. Both of the algorithms given by Dijkstra are shown to have an expected number of swaps which is 2/3N + &thgr;(1) and that these values differ at most by 1/3 of a swap and asymptotically by 1/4 of a swap. The algorithm of Meyer is shown to have expected swap complexity 5/9 N. ...

> **Keywords**: Dutch National Flag Problem, algorithmic analysis, refinement, structured programming

77 <u>The Dutch national flag problem revisited as an introductory abstract data type</u>

Kathie A. Yerion

June 1994 **ACM SIGCSE Bulletin**, Volume 26 Issue 2

Full text available: <u>pdf(455.55 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

> In Computer Science 2 or Data Structures courses, a major topic is the concept of an abstract data type (ADT). Students often have difficulty grasping this concept in the beginning because of the abstractness of "a data object with operations performed on the object." [2] An abstract data type based on a robot sorting pebbles gives students much needed concreteness for their initial exposure.

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... detection of the RTS flag by the auto-hunt circuit, it will send a GA flag (**CTS**
flag = 011111110 = 7F ... A read of HRA **Status** register 1 should **confirm** that the ...
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... if you get "CONNECT" on the kppp **status** window but you see that on the P900
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... sound enable and Sound 1-4 play **status**)(Partially Implemented in CowBite) ...
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... **Status** Line displays a message to that effect. <ESC> removes the help. screen.
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Specifications
... When **CTS flag** is set to always/blindly, then the sender transmits data ...
Whenever the CPU enters an exception, the current **status** register (CPSR) is ...
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... leaving net message. Parameters: Ground station code Local user identifier
3.5.2.1.3 Poll **status**. MA_POLLSTATUS.information is the ...
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... See attached for specific changes to TM. WG-M **Status**: PROPOSED 19/8/02. ... See attached
for specific changes to TM. WG-M **Status**: PROPOSED 19/8/02. ...
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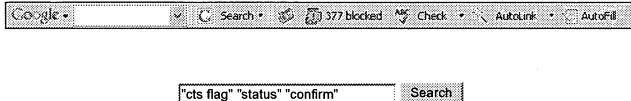GBATEK Gameboy Advance Technical Info - Extracted from no$gba ...
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